

Water Management Coordination Team Report  
Assets for End of Stage I

**In-Delta Storage**

Webb Tract and Bacon Island

1. Project Description

240 TAF storage capacity  
11,000 acres of reservoir  
9,000 acres of habitat (Bouldin and Holland)

Reference: Delta Wetlands DEIR/EIS, December 1995

2. Project Costs

\$779 million estimated capital costs  
\$10 million estimated annual O&M costs  
\$236 to \$328 per acre-foot

Reference: CALFED Storage and Conveyance Components, Facility  
Descriptions and Cost Estimates, October 1997

However, actual cost per acre-foot is likely to be higher because of reduced  
annual average yield relative to October 1997 predictions.

3. Timing

DEIR/S completed December 1995, REIR/EIS in January 2000  
Water rights hearing held summer 1997, continued hearing in spring 2000  
2-3 year construction construction schedule

4. Project Benefits

~~173-240 TAF of additional Delta exports per year~~  
115 TAF of additional Delta exports on average but none in many dry years  
Creation of 240 TAF of new in-Delta storage  
Potential salinity benefits from release of low salinity water  
Elimination of 92 unscreened ag diversions  
Elimination of 56 TAF of foregone ag discharges  
Creation of 9,000 acres of wetland and wildlife habitat (Bouldin and Holland)

Reference: DNCT gaming EWA Game 1, Summer 1999  
Delta Wetlands DEIR/EIS, December 1995

~~7.5. Impacts on Others~~ Project Impacts

~~Potential water quality impact on Delta TOC levels~~  
Potentially significant water quality impacts: increased Delta TOC and salinity  
levels  
~~Potential seepage impacts to neighboring islands~~  
Potential danger from levee failure without substantial levee strengthening

~~5.6.~~ Assumed Duration of Project Benefits

Benefits are assumed to be permanent

~~6.7.~~ Assumed Operational Restrictions

4,000 cfs average monthly diversions  
4,000 cfs average monthly discharges  
Diversion restrictions October to March for fishery protection  
Diversion prohibitions April to May for fishery protection  
Discharge restrictions January to July for fishery protection

Reference: FWS and NMFS biological opinions, May 1997  
DFG revised biological opinion August 1998

Additional operation constraints will likely be necessary to mitigate for water  
quality impacts and to ensure levee stability and to mitigate seepage impacts.

~~7.~~ Impacts on Others

~~Potential water quality impact on Delta TOC levels~~  
~~Potential seepage impacts to neighboring islands~~

8. [Major] Permits or Other Approvals Needed

Water rights permit to divert and store surplus flows  
404 permit to construct levee improvements  
NMFS and DFG consultation for spring run chinook salmon

9. Procedure for Obtaining Permits and Other Approvals

SWRCB issues water rights permit  
USACE issues 404 permits  
FWS, NMFS, and DFG issue biological opinions

10. Implementation Responsibility

Delta Wetlands or project buyer

## 11. Necessary Cooperating Parties

DWR and USBR for operations involving SWP and CVP facilities  
Fish and wildlife agencies to monitor the implementation of biological opinions

### Bacon Connected to Export Pumps

## 1. Project Description

**4,000 cfs pipeline connection from Bacon to CCFB**  
Requires Bacon Island storage to be in place (see above)

## 2. Project Costs

**\$218 million estimated capital costs (no new storage)**  
**\$1 million estimated annual O&M costs**  
**\$94 to \$130 per acre-foot (in addition to Bacon storage costs, see above)**

Reference: CALFED Storage and Conveyance Components, Facility Descriptions and Cost Estimates, October 1997

### 3. Timing

Feasibility and environmental studies could take 3 to 5 years  
2-3 year constuction schedule

#### 4. Project Benefits

108-150 TAF of screened Delta exports per year

Reference: DNCT gaming EWA Game 1, Summer 1999

## 5. Assumed Duration of Project Benefits

Benefits are assumed to be permanent

## 6. Assumed Operational Restrictions

4,000 cfs capacity

## 7. Impacts on Others

Potential impact to landowners between Bacon and CCFB  
 Potential impact to Santa Fe railroad  
 Potential impact to HWY 4  
 Potential impact to EBMUD aqueduct  
 Potential impact to gas pipeline

8. [Major] Permits or Other Approvals Needed

## 404 permit to pipeline

Biological opinions for terrestrial and fishery species  
Streambed alteration permit for siphons under channels

9. Procedure for Obtaining Permits and Other Approvals

USACE issues 404 permits  
FWS, NMFS, and DFG issue biological opinions

10. Implementation Responsibility

Project proponent

11. Necessary Cooperating Parties

DWR and USBR for operations involving SWP and CVP facilities  
Fish and wildlife agencies to monitor the implementation of biological opinions

Woodward Island and Victoria Island

1. Project Description

108 TAF storage capacity (EWA gaming assumed 80 TAF)  
8,300 acres of reservoir  
Assume 6,800 acres of habitat

Reference: CALFED Storage and Conveyance Components, Facility  
Descriptions and Cost Estimates, October 1997

2. Project Costs

\$666 million estimated capital costs  
\$7 million estimated annual O&M costs  
\$483 to \$670 per acre-foot

Reference: CALFED Storage and Conveyance Components, Facility  
Descriptions and Cost Estimates, October 1997

3. Timing

Feasibility and environmental studies could take 3 to 5 years  
Water rights hearing could be held in 2005  
2-3 year construction schedule

4. Project Benefits

70-97 TAF of additional Delta exports per year  
Creation of 108 TAF of new in-Delta storage  
Potential salinity benefits from release of low salinity water  
Elimination of unscreened ag diversions  
Elimination of foregone ag discharges  
Creation of 6,800 acres of new wetland and wildlife habitat

Reference: DNCT gaming EWA Game 2, Summer 1999

5. Assumed Duration of Project Benefits

Benefits are assumed to be permanent

6. Assumed Operational Restrictions

4,000 cfs average monthly diversions  
4,000 cfs average monthly discharges  
Diversion restrictions October to March for fishery protection

Diversion prohibitions April to May for fishery protection  
No discharge restrictions, directly connected to CCFB

7. Impacts on Others

Potential water quality impact on export TOC levels  
Potential seepage impacts to neighboring islands  
Potential impact to Caltrans HWY 4  
Potential impact to EBMUD aqueduct  
Potential impact to gas and WAPA power transmission lines

8. [Major] Permits or Other Approvals Needed

Environmental evaluations (EIR/EIS)  
Water rights permit to divert and store surplus flows  
404 permit to construct levee improvements  
Biological opinions for all species  
Streambed alteration permit for siphons under channels

9. Procedure for Obtaining Permits and Other Approvals

SWRCB issues water rights permit  
USACE issues 404 permits  
FWS, NMFS, and DFG issue biological opinions

10. Implementation Responsibility

Project proponent

11. Necessary Cooperating Parties

DWR and USBR for operations within SWP and CVP system  
Fishery and wildlife agencies to implement biological opinions  
Caltrans for HWY 4 impacts  
Gas and WAPA for power transmission impacts

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